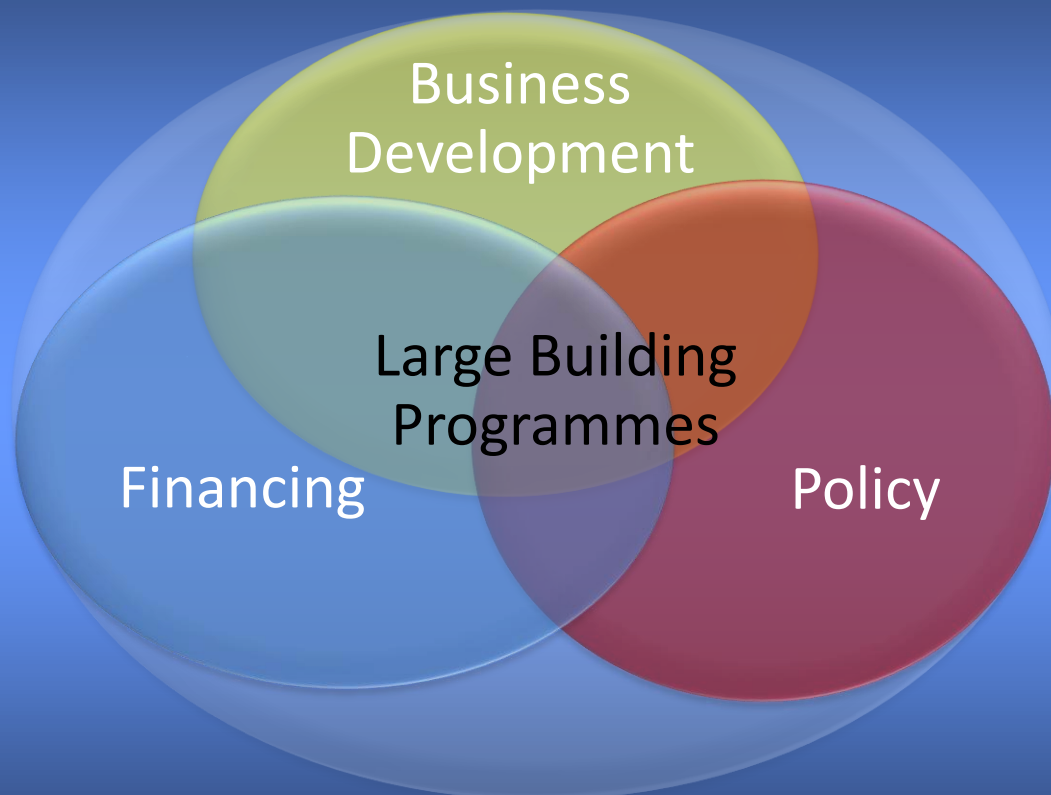


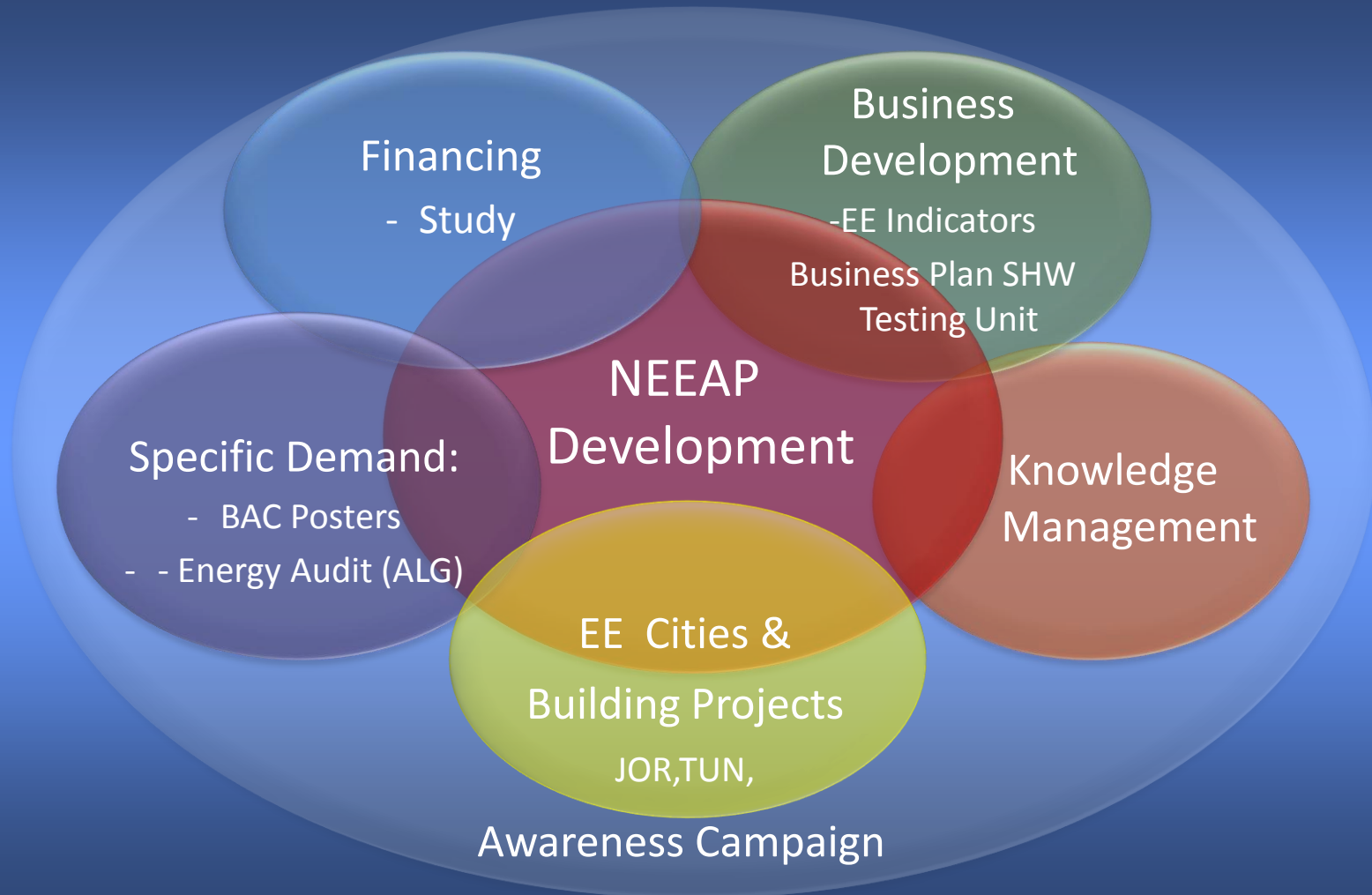
MED ENEC II

MENAREC 5

Marrakech, May 15-16, 2012

Dr. Kurt Wiesegart, Team Leader





MED-ENEC Pillars

Specific activities are based on requests



This project is funded by the European Union

- Regional Awareness Campaign on EE (Arab EE Day, May 21)
- EUREM – Euro Energy Manager (together with the Chamber of Commerce)
- Building Projects/Programs
- Financing study, data base and search engine available financing for EE measures under NEEAPs
- Regional Road Maps (EE BC, Regulation/Certification of ESCOs)
- Specific Support and advisory **Work upon Demand**

Input=100

End use =
0.8 !!!



$\eta = 42$ (?)



$\eta = 97$



$\eta = 94$



$\eta = 2$



Efficiency 20 lm/W

Overall luminous
efficiency 2%

End-use energy demand until 2020



This project is funded by the European Union

		2005	2020	Increase
World	b.a.u.	231	380	65%
	EE measures	231	287	24%
Among:				
Middle East	b.a.u.	23	45	96%
	EE measures	23	30	30%

No! Definitely not!

RE has – although different from extrem negative influences of fossil energies – also negative impacts on the environment

Furthermore:

Expansion of electricity consumption when following the b.a.u. approach will – among others – absorb large amounts of RE generated electricity which then cannot be exported:

Including the electricity which is to be generated in the planned Mega Solar/Mega Wind Parks in the region for exports to Europe!

Supported by RE as a (relative) clean
energy source

Since: **The cleanest energy
is the energy which is not
used!**

Local job creation, since Energy Efficiency activities are spread all over the country

(**EU**: Euro 60 Bill energy savings would create 1 Mio new Jobs!
Housing sector: 70 Mtoe until 2020 saved: create 250.000 full time jobs!

Boost local industries

(Local manufacturing of most of requested stuff: e.g. housing: Bldg materials, envelops, roof insulation, double glassing,...), certain appliances,...

Market barriers / Information barriers / Capital constraints

Missing Government's commitment to EE

- Energy prices too low
- Subsidies

Lack of ...technical standards / ..of a proper institutional set-up / ...of awareness & information on EE / ...of qualified staff / of developed Energy Service business

-

Problem? Possible solutions?



This project is funded by the European Union

EE does not have a „pressure group“ – like other industrial sectors (including RE)

- Missing commitment of the Governments
- EE financing is totally different from large scale RE financing
- Reluctance of banks

Instruments/Financing facilities are in place e.g.

- Micro finance e.g. for the industry
- Tax policy
- Revolving funds (after Initial budgeting)

To implement the necessary framework:

1. Price reforms – considering social issues

2. Institutional set-up – enabling frameworks and implementation arrangements – as there are:

- ✓ National energy strategies and plans, long-term goals broken down in short-term target,
- ✓ Regulatory frame work (Laws, regulations, incentive system,...)
- ✓ An Energy Agency in charge of monitoring the progress,...
- ✓ Incentive systems
- ✓

Experience have been gathered in other countries – e.g. Brazil, Japan, China, Indonesia,... - and could be duplicated.

Without the necessary framework everything else remains a piecemeal patchwork

Develop and implement a NEEAP as the umbrella & guideline, then: **Take necessary actions**, e.g.:

- Tariff reforms – cost-oriented tariffs are a must. Whereas: Subsidies are the knock-out of any EE measures
- Development/Improvement and implementation of techn. Standards (e.g. EE BC)
- Capacity building on different (admin) levels
- Develop ESCOs
- Awareness campaigns
- Coordinate with energy suppliers (e.g. for EEOs)
- Tax / Incentive policy (e.g. for energy efficient technologies)
- Public purchasing

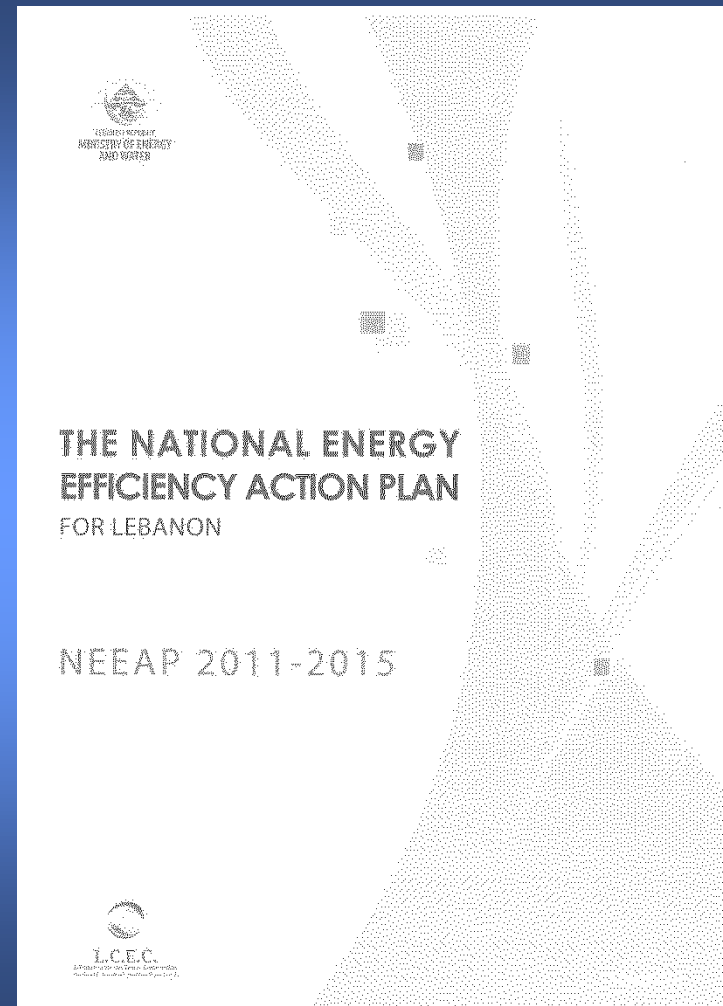
✓ **Lebanon**

✓ **Palastine**

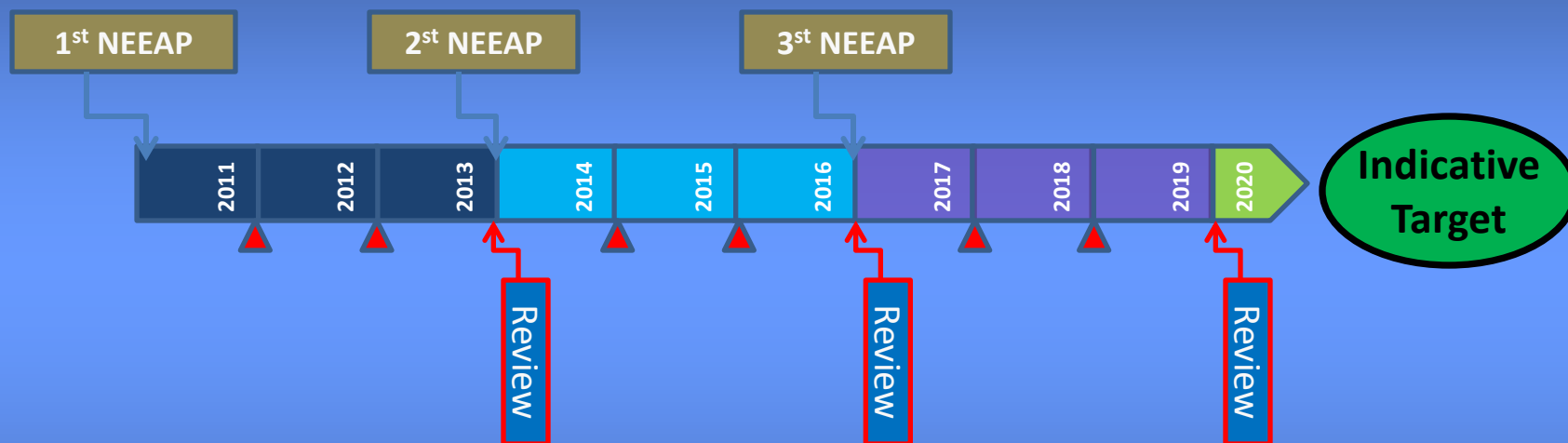
✓ **Jordan**

under discussion:

➤ *Algeria*







Control

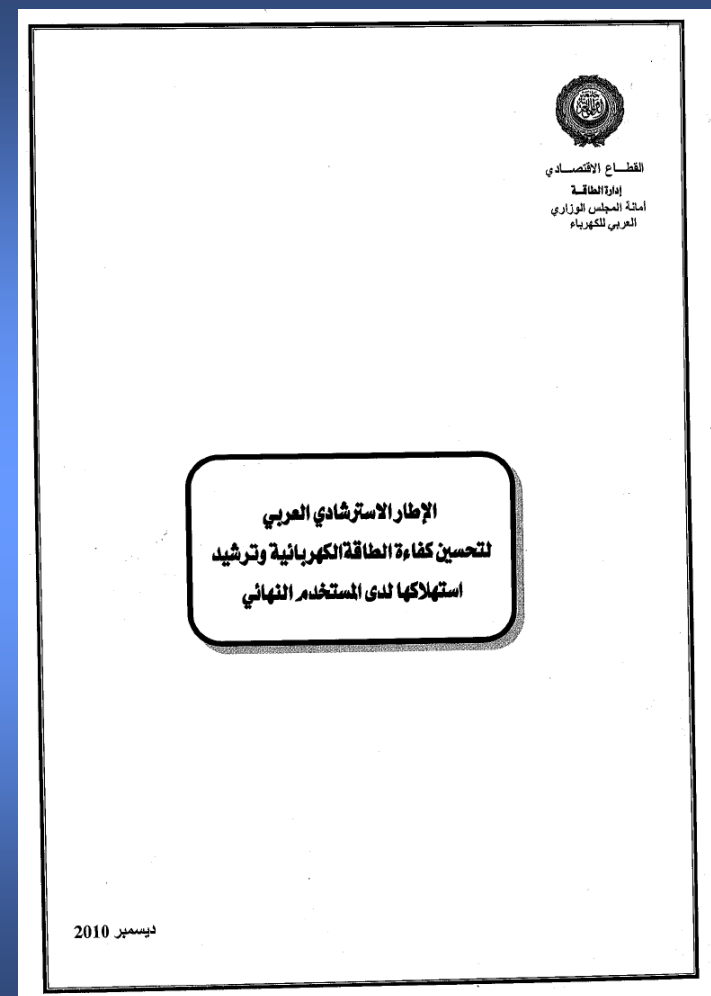
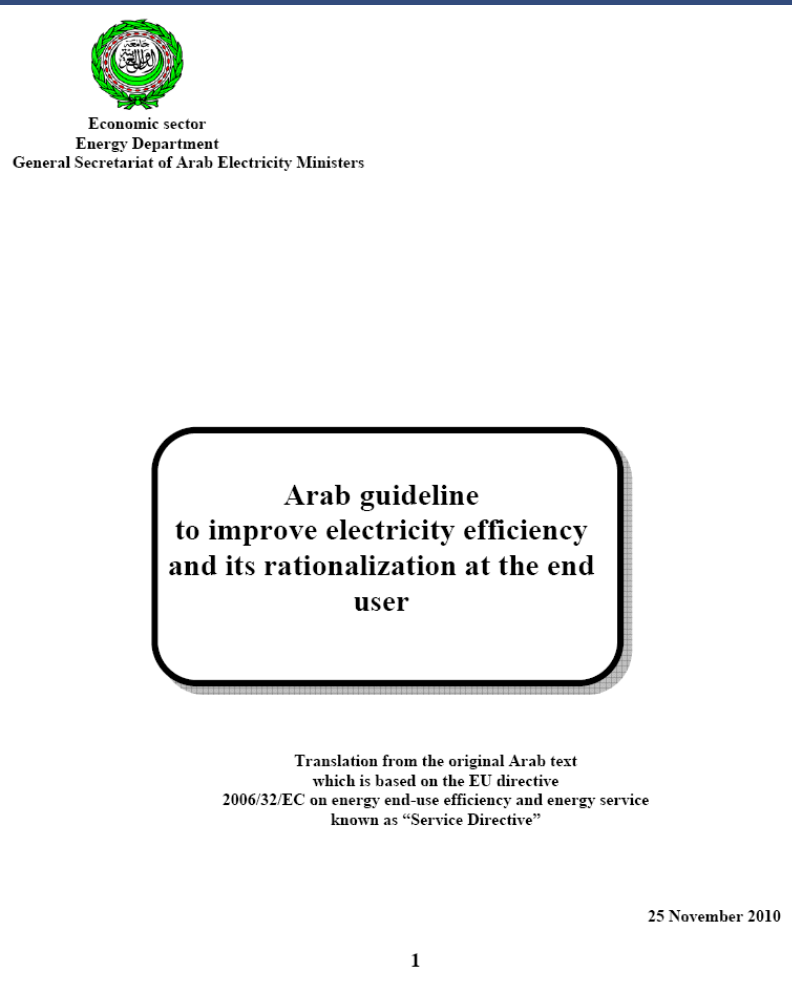
- Key indicators
- Indicative target
- Name of organization and contact person for NEEAP follow-up
- Methodology calculation of the national target

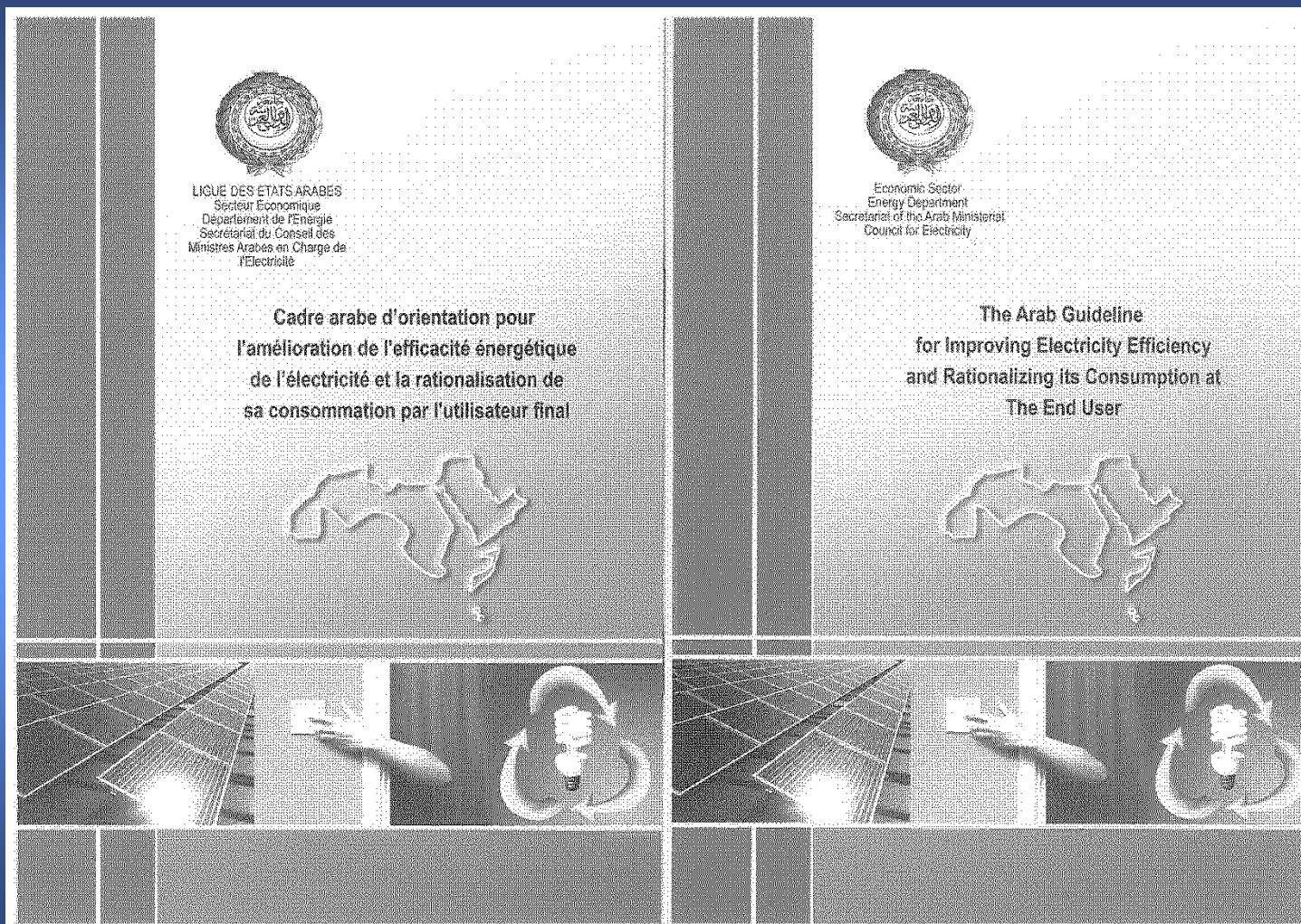
Residential

Sector 1

1- Overview table of all EE measures

No	Title and description of the EE measure	Implementation period	Electricity savings for the first 3 years 2011-2013
1	Building Insulation Program		
2	Passive design for new buildings		
3	Solar Water Heaters		





- Feasibility study for testing equipment for SWH (PAL)
- Support to EBRD entering the region – focus on EE and RE financing
- Financing Forum: LAS & EU conference focusing on EE and RE financing – with European and Arab banking institutions

➤ Energy Efficiency Building Codes

- ✓ Overview on the status of EE BC in the region – WS Beirut 09/2011
- ✓ Different status of the countries
- ✓ Develop the regional Road Map (Regulatory framework, institutional set-up, capacity building,....)
- ✓ Following: Adopt to local conditions

➤ Regulation and Certification of ESCOs

- ✓ Overview on the status of ESCOs in the region – WS Beirut 05/2012
- ✓ Different status of the countries
- ✓ Develop the regional Road Map (Regulatory framework, certifications, institutional set-up, capacity building,....)
- ✓ Following: Adopt to local conditions

شكراً جزيلاً!

Thank you very much!
Merci Beaucoup!

Dr. Kurt Wiesegart, Team Leader